

OWNER'S MANUAL

MODEL NOS. 247.797852 247.797853

Caution: Read and Follow All Safety Rules and Instructions Before Operating This Equipment

CRAFTSMAN®

5 HORSEPOWER 3 CUTTING STAGE MULCHING AND BAGGING CHIPPER-SHREDDER

Assembly Operation Maintenance Service and Adjustment Repair Parts

SAFETY RULES



WARNING: TO REDUCE THE POTENTIAL FOR ANY INJURY, COMPLY WITH THE FOLLOWING SAFETY INSTRUCTIONS. FAILURE TO COMPLY WITH THE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY.

TRAINING

- Read this owner's manual carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- Children must never be allowed to operate this equipment.
- No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.
- This equipment should never be operated in the vicinity of children, pets or other persons.
- Never run your machine in an enclosed area as the exhaust from the engine contains carbon monoxide, which is an odorless, tasteless and deadly poisonous gas.
- Never place your hands or any part of your body or clothing inside the feeding chamber, discharge chute, or near any moving part while the machine or engine is running.
- If it is necessary for any reason to inspect or repair the feeding chamber or any part of the machine where a moving part can come in contact with your body or clothing, stop the machine, allow it to cool, disconnect the spark plug wire from the spark plug and move it away from the spark plug before attempting such inspection or repair.

PREPARATION

- Wear safety glasses provided with your unit while operating the chipper-shredder to prevent injury from any material which may be ejected out of the openings.
- Wear proper apparel. Avoid wearing loose fitting clothing. Wear gloves when handling material.
- HANDLE GASOLINE WITH CARE as it is an extremely flammable fuel.
- Check the fuel before starting the engine. Do not fill the fuel tank indoors, while the engine is running, or while the engine is still hot. Turn the unit off and let the engine cool before refueling.
- Fuel your chipper-shredder in a clean area. Do not smoke while refueling.
- Fuel tank cap must be secure at all times except during refueling.
- Avoid spilling gasoline or oil. Wipe the unit clean of any spilled fuel or oil.
- Store fuel and oil in approved containers, away from heat or open flame, and out of reach of children.
- This machine should be operated only upon a level surface.
 Assure that all screws, nuts and bolts and other fasteners.
- are properly secured.

OPERATION

When feeding shreddable material into this equipment, be extremely careful that pieces of metal, rocks, bottles, cans or other foreign objects are not included. Personal injury or damage to the machine could result. If the cutting mechanism strikes any foreign object or if your machine should start making an unusual noise or vibration, immediately stop the engine, disconnect the spark plug wire from the spark plug and move it away from the spark plug. Allow the machine to stop and take the following steps:

Inspect for damage.

Replace or repair any damaged parts.

Check for any loose parts and tighten to assure continued safe operation.

- The engine must be kept clean of debris and other accumulations.
- Do not allow an accumulation of processed material to build up in the discharge area as this will prevent proper discharge and can result in kick-back from feed opening.
- Never place your hands or any other part of your body or clothing inside the feeding chamber, discharge chute or near any moving part while the engine is running.
- Keep all guards and deflectors in place and in good working condition to assure continued safe operation.
- Always stand clear of the discharge area when operating this machine.
- Keep your face and body back from the feed opening to avoid accidental bounce back of any material.
- Do not over-reach. Keep proper balance and footing at all times.
- The engine governor settings on your machine must not be altered, changed, or tampered with. The governor controls the maximum safe operating speeds and protects the engine and all moving parts from damage caused by overspeed.
- Do not transport machine while engine is running.
- Do not operate engine if air cleaner or cover directly over carburetor air intake is removed, except for adjustment. Removal of such parts could create a fire hazard.

MAINTENANCE AND STORAGE

- When this equipment is stopped for servicing, inspection, storage or to change an accessory, make sure the spark plug wire is disconnected from the spark plug and moved away from the spark plug. The machine should be allowed to cool down before making such inspection, adjustments, service, etc. Maintain your machine with care and keep it clean for the best and continued safe operation.
- Do not use flammable solutions to clean the air filter.
- When not in use, your machine should be stored out of the reach of children. Keep where gasoline fumes will not reach an open flame or spark. For long periods of storage, refer to the "Storage" section of this manual.

LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS—ATTENTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED. **CONGRATULATIONS** on your purchase of a Sears Craftsman Chipper-Shredder. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest Sears Service Center/ Department. We have competent, well-trained technicians and the proper tools to service or repair this unit.

Please read and retain this manual. The instructions will enable you to assemble and maintain your chipper-shredder properly. Always observe the "SAFETY RULES."

MODEL NUMBER
SERIAL NUMBER
DATE OF PURCHASE

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A LABEL ATTACHED TO THE FRAME OF THE CHIPPER-SHREDDER.

YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

PRODUCT SPECIFICATIONS

Horsepower:	5.0
Displacement:	12.57 cu. in.
Fuel Capacity:	3 Quarts
Spark Plug (Gap .030 in.):	Champion J19LM or Equivalent
Magnetron [®] Ignition Air Gap:	.0125 in.

MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your chipper-shredder.
- Follow the instructions under "Maintenance" and "Storage" sections of this Owner's Manual.

WARRANTY

ONE YEAR LIMITED WARRANTY ON CRAFTSMAN GAS CHIPPER-SHREDDER

For one year from the date of purchase, when this Craftsman Chipper-Shredder is maintained, lubricated and tuned up according to the instructions in the owner's manual, Sears will repair, free of charge, any defect in material and workmanship.

If this Craftsman Chipper-Shredder is used for commercial or rental purposes, this warranty applies for only 30 days from the date of purchase.

This warranty does not cover:

- Expendable items which become worn during normal use, such as blades, chipper blades, flails, air cleaners, spark plugs and catcher bags.
- Repairs necessary because of operator abuse or negligence, including bent crankshafts and the failure to maintain the equipment according to the instructions contained in the owner's manual.

WARRANTY SERVICE IS AVAILABLE BY RETURNING THE CRAFTSMAN CHIPPER-SHREDDER TO THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES. THIS WARRANTY APPLIES ONLY WHILE THIS PRODUCT IS IN USE IN THE UNITED STATES.

This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

SEARS, ROEBUCK AND CO., Department 731CR-W, Sears Tower, Chicago, IL 60684

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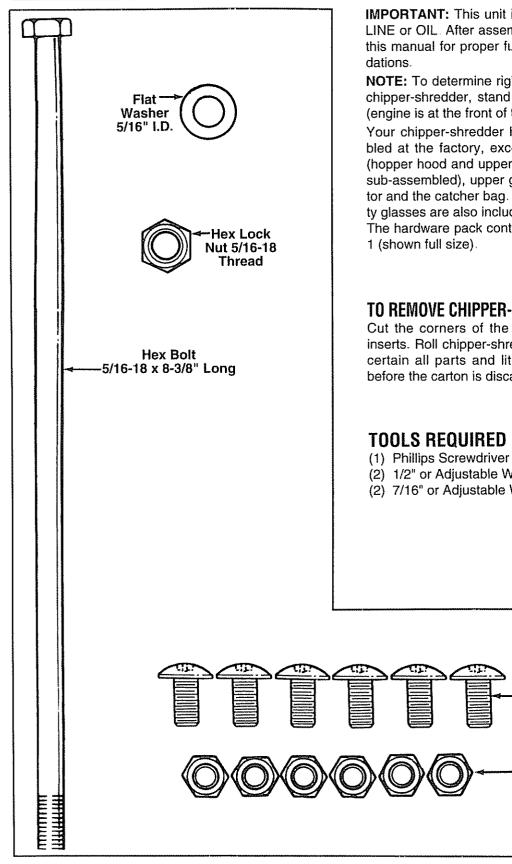
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Warranty

WARNING: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler (see page 23) is available through your Sears Authorized Service Center.

ASSEMBLY INSTRUCTIONS



IMPORTANT: This unit is shipped WITHOUT GASO-LINE or OIL. After assembly, see operation section of this manual for proper fuel and engine oil recommen-

NOTE: To determine right and left hand sides of your chipper-shredder, stand behind and face the hopper (engine is at the front of the unit).

Your chipper-shredder has been completely assembled at the factory, except for the hopper assembly (hopper hood and upper leaf ramp section have been sub-assembled), upper quide assembly, chute deflector and the catcher bag. The hardware pack and safety glasses are also included in the carton.

The hardware pack contains the parts shown in figure

TO REMOVE CHIPPER-SHREDDER FROM CARTON

Cut the corners of the carton. Remove all packing inserts. Roll chipper-shredder out of the carton. Make certain all parts and literature have been removed before the carton is discarded.

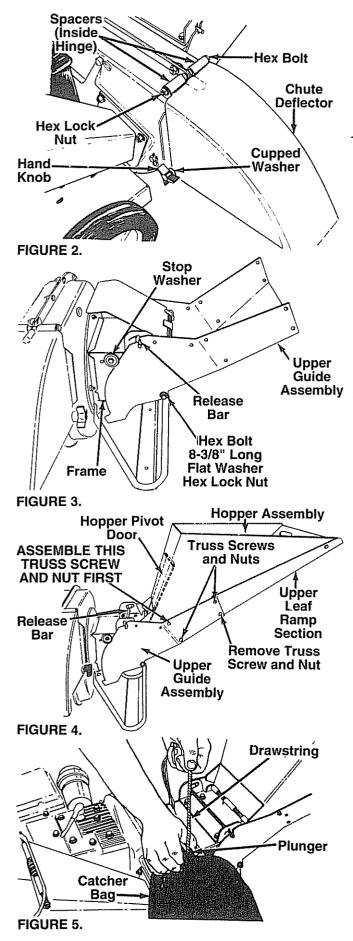
> Truss Machine Screws 1/4-20 x 1/2" Long

> > Hex Lock Nuts 1/4-20 Thread

TOOLS REQUIRED FOR ASSEMBLY

- (2) 1/2" or Adjustable Wrenches
- (2) 7/16" or Adjustable Wrenches





HOW TO SET-UP YOUR CHIPPER-SHREDDER



MAKE CERTAIN THE SPARK PLUG WIRE IS DISCONNECTED AND MOVED AWAY FROM THE SPARK PLUG BEFORE ASSEMBLING THE CHIPPER-SHREDDER.

■ATTACHING THE HOPPER ASSEMBLY

- Remove the hand knobs and cupped washers from each side of the discharge opening on the left side of the chipper-shredder.
- Remove hex lock nut, two spacers and hex bolt from inside the hinge on top of the discharge opening. Do not remove one spacer from the hex bolt.
- Place the chute deflector in position on the discharge opening. Insert hex bolt and spacer through hinge on chute deflector and housing (spacer fits inside of hinge). See figure 2.
- Place second spacer over hex bolt, inside other part of hinge. Secure with hex lock nut. Tighten securely.
- Secure both sides of chute deflector to housing using hand knobs and cupped washers (cupped side of washers go against chute deflector).

←ATTACHING THE UPPER GUIDE ASSEMBLY

Place upper guide assembly in position on frame, making certain edges of the upper guide assembly are underneath stop washers, and the release bar is in the slots. See figure 3 Insert hex bolt 8-3/8" long through upper guide assembly and frame. Secure with flat washer and hex lock nut.

NOTE: Make certain upper guide assembly can pivot by pulling up on release bar and lowering upper guide assembly. If necessary, loosen hex lock nut a turn or two. Put the upper guide assembly back into the raised position.

ATTACHING THE HOPPER ASSEMBLY

Your chipper-shredder has been shipped with the upper leaf ramp section attached to the hopper assembly. See figure 4. Attach the hopper assembly to the upper guide assembly as follows. Be certain to place heads of all truss machine screws **inside** of hopper assembly.

- Remove one truss machine screw and nut from each side of hopper assembly as shown in figure 4.
 Push hopper pivot door down inside lower part of hopper as you place hopper assembly (both pieces) inside upper guide assembly. Replace truss screws and nuts just removed, using the hole shown in figure 4, one on each side. Tighten finger tight only.
- Place the six truss machine screws and nuts found in hardware pack in the remaining holes of hopper assembly, alternating sides of the unit and tightening finger tight only.
- After assembling all eight screws, tighten them securely.

▲ ATTACHING THE CATCHER BAG

Your chipper-shredder is equipped with a catcher bag to catch the shredded material.

• To attach the bag, place the opening of the bag over the chute deflector so it completely covers the chute opening. Depress the plunger on the drawstring, and pull on the drawstring until the bag is tight around the chute opening. Release plunger to lock it into position. See figure 5.

OPERATION

KNOW YOUR CHIPPER-SHREDDER

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR CHIPPER-SHREDDER. Compare the illustrations with your chipper-shredder to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

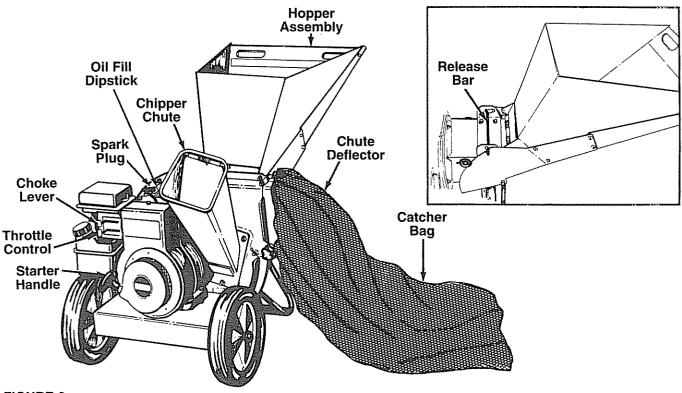


FIGURE 6.

MEETS ANSI SAFETY STANDARDS

Sears chipper-shredders conform to the safety standards of the American National Standards Institute.

OPERATING CONTROLS (See figure 6)

RELEASE BAR—Used to release the hopper when raising or lowering.

STARTER HANDLE—Used to manually start the engine.

CHOKE LEVER—Used to enrich the fuel mixture in the carburetor when starting a cold engine.

THROTTLE CONTROL.—Controls engine speed and stops the engine.

BEFORE USING YOUR CHIPPER-SHREDDER, AGAIN REFER TO THE "SAFETY RULES" AS SHOWN ON PAGE 2 OF THIS MANUAL. ALWAYS BE CAREFUL.

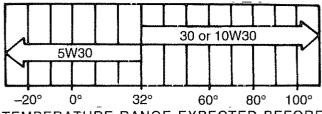


The operation of any chipper-shredder can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear the safety glasses provided with the chipper-shredder or eye shields before chipping or shredding, or while performing any adjustments or repairs. We recommend Wide Vision Safety Mask for over spectacles or standard glasses available at Sears Retail or Catalog Stores.

BEFORE STARTING GAS AND OIL FILL-UP

NOTE: ENGINE IS SHIPPED WITHOUT OIL. FILL CRANKCASE WITH OIL BEFORE STARTING. BE VERY CAREFUL NOT TO ALLOW DIRT TO ENTER THE ENGINE WHEN CHECKING OR ADDING OIL OR FUEL.

Recommended SAE Viscosity Grades



TEMPERATURE RANGE EXPECTED BEFORE NEXT OIL CHANGE. ALL OILS MUST BE A.P.I. SERVICE CLASSIFICATION SD, SE OR SF.

Fill engine with oil as follows. Remove oil fill dipstick. See figure 7. With chipper-shredder level, use a funnel to fill engine with oil to FULL mark on dipstick. Capacity is approximately 1-1/4 pints. Be careful not to overfill. Tilt chipper-shredder toward the left (from behind the hopper), then re-level. Check oil level. Refill to FULL mark on dipstick if necessary. Replace dipstick and tighten.

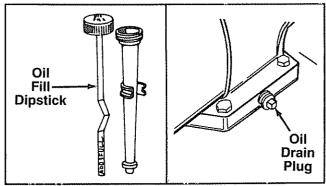
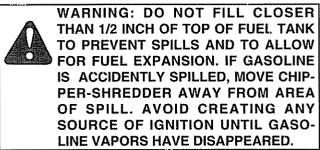


FIGURE 7.

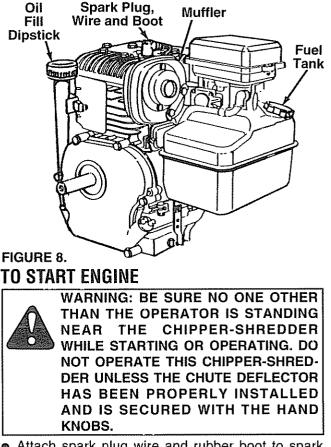
Remove fuel cap and fill fuel tank. See figure 8.
 Use fresh, clean, unleaded automotive gasoline.
 Capacity is 3 quarts. Replace fuel cap.



Check the fuel level periodically to avoid running out of gasoline while operating the chipper-shredder. If the unit runs out of gas as it is shredding or chipping, it may be necessary to unclog the unit before it can be restarted. Refer to "Removing the Flail Screen" on page 13. **Caution:** Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be empty before storage for 30 days or longer. Refer to "Storage" section of this manual for details. Use fresh fuel each season.

Never use engine or carburetor cleaner products in the fuel tank or permanent damage may result.

NOTE: USE CLEAN OIL AND FUEL. STORE IN APPROVED, CLEAN, COVERED CONTAINERS. USE CLEAN FILL FUNNELS.



- Attach spark plug wire and rubber boot to spark plug if necessary. See figure 8.
- Place the throttle control lever in FAST position. See figure 9.
- Move choke lever to CHOKE position.
- Grasp starter handle (see figure 9) and pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point). Let the rope rewind slowly.

NOTE: A noise will be heard when finding the start of the compression cycle. This noise is caused by the flails and fingers which are part of the shredding mechanism falling into place, and should be expected. In addition, the flails and fingers will be noisy after the engine is started, until the impeller reaches full speed.

- Pull rope with a rapid, continuous, full arm stroke. Keep a firm grip on start handle. Let rope rewind slowly. Do not let starter handle snap back against starter.
- Repeat preceding two instructions until engine fires. When engine starts, move choke lever on engine halfway between CHOKE and RUN.

NOTE: If engine does not fire after three attempts, move choke lever halfway between CHOKE and RUN position and try again. See figure 9.

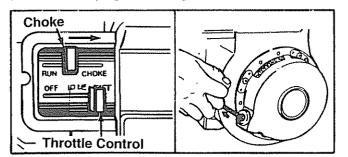


FIGURE 9.

Move throttle control to IDLE position for a few minutes warm-up. Move choke lever to RUN position as engine warms up.

NOTE: In order to idle smoothly, a new engine may require 3 to 5 minutes running above slow idle speed. Idle speed has been adjusted to be correct after this break-in period.

TO STOP ENGINE

- Move throttle control lever to STOP position. See figure 9.
- Disconnect spark plug wire and move away from spark plug to prevent accidental starting while equipment is unattended.

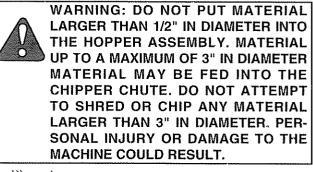
HOW TO USE YOUR CHIPPER-SHREDDER

Do not attempt to shred or chip any material other than vegetation found in a normal yard (i.e., branches, leaves, twigs, etc.).



WARNING: THE CHIPPER-SHREDDER DISCHARGES MATERIALS WITH CON-SIDERABLE VELOCITY. KEEP AWAY FROM THE AREA AROUND THE CHUTE DEFLECTOR. ALWAYS STOP THE ENGINE AND DISCONNECT THE SPARK PLUG WIRE WHEN REMOVING OR ATTACHING THE BAG WHEN CHANGING CONTAINERS OR WHEN REMOVING THE SHREDDED MATERI-AL. WEAR SAFETY GLASSES AND GLOVES WHENEVER USING YOUR CHIPPER-SHREDDER. The chipper-shredder is designed for three different methods of operation.

Leaves and small branches up to 1/2" diameter can be fed into the hopper assembly when it is in the raised position. See figure 10. If it becomes necessary to push material into the chipper-shredder, use a small diameter stick—NOT YOUR HANDS. The stick should be small enough that it will be ground up if gets into the impeller assembly.



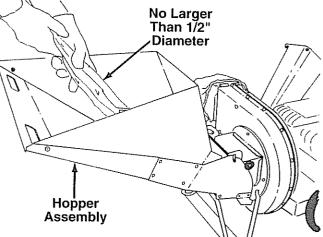


FIGURE 10.

Leaves and small twigs can be raked into the hopper assembly when the hopper assembly is lowered to the ground. See figure 11. Small branches up to 1/2" diameter can also be fed into the hopper assembly in this position. See figure 12.

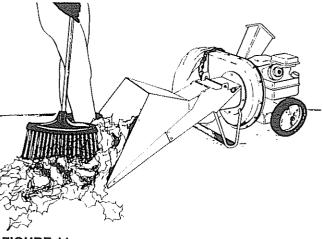


FIGURE 11.

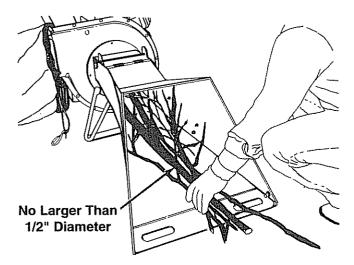


FIGURE 12.

• To lower the hopper assembly, use one hand to grasp the handle at the top of the hopper assembly and lift slightly. Pull up on the release bar, and lower the hopper assembly to the ground. Release the bar. See figure 13.

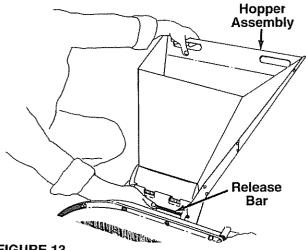
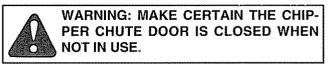


FIGURE 13.

Bulky material, such as stalks or heavy branches, up to 3" in diameter, should be fed into the chipper chute. See figure 14.



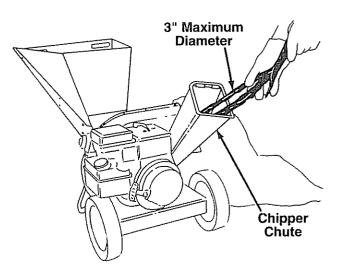


FIGURE 14.

IMPORTANT: There is a flail screen located inside the housing in the discharge area. If the flail screen becomes clogged, remove and clean as instructed in the Service and Adjustments section on page 13. For best performance, it is important to keep the shredding blade and the chipper blades sharp. If the composition of the material being discharged changes (becomes stringy, etc.) or if the rate at which the material is discharged slows down considerably, it is likely that the shredding blade and/or chipper blades are dull and need to be sharpened or replaced. Refer to Service and Adjustments section, page 13.

MAINTENANCE

GENERAL RECOMMENDATIONS

- Periodically check all fasteners and be sure they are tight.
- Follow the Service Recommendation Schedule on page 15.

CHIPPER-SHREDDER

LUBRICATION

Lubricate the pivot points on the release bar, hopper assembly, chute deflector and chipper chute once a season using a light oil.

ENGINE LUBRICATION

Check engine oil level regularly—approximately every five hours of operation and before each usage. Stop engine and wait several minutes before checking oil level. With engine level, the oil must be to FULL mark on dipstick (refer to figure 7). Change engine oil after the first five hours of operation, and every twenty-five hours thereafter.

Drain oil while engine is warm.

Remove oil drain plug. Refer to figure 7. Tip the chipper-shredder, and catch oil in a suitable container.

When engine is drained of all oil, replace drain plug securely.

- Refill with fresh oil. Above 32°, use oil labeled SAE 30 or 10W30. Below 32°, use oil labeled 5W20. Capacity is approximately 1-1/4 pints. Refer to "Gas and Oil Fill-Up" on page 8.
- Replace dipstick.

AIR CLEANER

The air cleaner prevents damaging dirt, dust, etc., from entering the carburetor and being forced into the engine and is important to engine life and performance.

Never run your engine without air cleaner completely assembled.

To Service Air Cleaner:

Clean cartridge at three month intervals or every 25 hours, whichever occurs first. See figure 15. Service more often under dusty conditions.

- Loosen screws and tilt cover as illustrated.
- Carefully remove pre-cleaner and cartridge.
- Clean cartridge by tapping gently on a flat surface. If very dirty, replace cartridge and pre-cleaner or clean as follows:

Wash in a low or non-sudsing detergent and warm water solution. **CAUTION:** Do not use petroleum solvents such as kerosene to clean cartridge.

Rinse thoroughly with flowing water from inside out until water is clear.

Allow cartridge to stand and air dry **thoroughly** before using. DO NOT OIL CARTRIDGE OR PRE-CLEANER. DO NOT USE PRESSURIZED AIR TO CLEAN OR DRY CARTRIDGE.

Install cartridge and pre-cleaner. Then close cover and fasten screws securely.

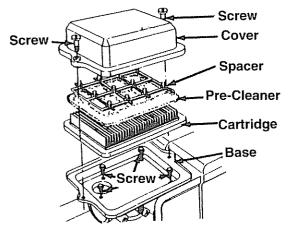


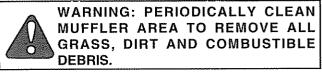
FIGURE 15.

CLEAN ENGINE

Clean engine periodically. Remove dirt and debris with a cloth or brush. Cleaning with a forceful spray of

water is not recommended as water could contaminate the fuel system.

Yearly or every 25 hours, whichever occurs first, remove the blower housing and clean the areas shown in figure 16 to avoid overspeeding, overheating and engine damage. Clean more often if necessary.



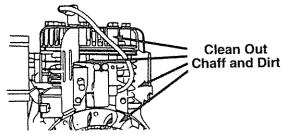


FIGURE 16.

SPARK PLUG

The spark plug should be cleaned and the gap reset to .030" at least once a season or every 50 hours of operation. See figure 17. Spark plug replacement is recommended at the start of each season. Refer to engine parts list for correct spark plug type.

NOTE: Do not sandblast spark plug. Spark plug should be cleaned by scraping or wire brushing and washing with a commercial solvent.

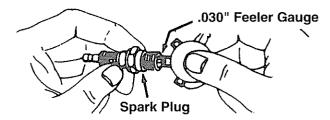


FIGURE 17.

MUFFLER

Do not operate the chipper-shredder without a muffler or tamper with the exhaust system. Damaged mufflers or spark arresters could create a fire hazard. Inspect periodically, and replace if necessary. If your engine is equipped with a spark arrester screen assembly, remove every 50 hours for cleaning and inspection. Replace if damaged.

CLEANING

- The chipper-shredder may be cleaned by running water from a hose through the hopper assembly and chipper chute with the engine running. Allow the chipper-shredder to dry thoroughly.
- Wash the bag periodically with water. Allow to dry thoroughly in the shade. Do not use heat.

STORAGE

NEVER STORE YOUR CHIPPER-SHREDDER INDOORS OR IN AN EN-CLOSED, POORLY VENTILATED AREA IF GASOLINE REMAINS IN THE TANK. FUMES MAY REACH AN OPEN FLAME, SPARK OR PILOT LIGHT FROM A FUR-NACE, WATER HEATER, CLOTHES DRYER, CIGARETTE, ETC.

To prevent engine damage if chipper-shredder is not used for more than 30 days, follow the steps below.

NOTE: GASOLINE MUST BE REMOVED OR TREATED TO PREVENT GUM DEPOSITS FROM FORMING IN THE TANK, FILTER, HOSE AND CAR-BURETOR DURING STORAGE. ALSO DURING STORAGE, ALCOHOL-BLENDED GASOLINE THAT USES ETHANOL OR METHANOL (SOMETIMES CALLED GASOHOL) ATTRACTS WATER. IT ACTS ON THE GASOLINE TO FORM ACIDS WHICH DAM-AGE THE ENGINE.

To remove gasoline, run engine until tank is empty and engine stops. Then disconnect fuel line at carburetor or fuel tank. Be careful not to damage fuel line, fittings or fuel tank. Drain any remaining fuel from the system. If you do not want to remove gasoline, Sears Craftsman Fuel Stabilizer No. 33500 may be added to any gasoline left in the tank to minimize gum deposits and acids. If the tank is almost empty, mix stabilizer with fresh gasoline in a separate container and add some to the tank. Always follow instructions on stabilizer container. Then run engine at least 10 minutes after stabilizer is added to allow mixture to reach carburetor. Store chipper-shredder in safe place. See warning in previous column.

You can help keep your engine in good operating condition during storage by:

- Changing oil.
- Lubricating the piston/cylinder area by first removing the spark plug and squirting clean engine oil into the spark plug hole. Then cover the spark plug hole with a rag to absorb oil spray. Next, rotate the engine by pulling the starter two or three times. Finally, reinstall spark plug and attach spark plug wire.

Protect the chipper-shredder during storage by:

- Thoroughly cleaning the chipper-shredder.
- If storing in an unventilated or metal storage shed, coat metal parts with a light oil or silicone to prevent rust.
- Store in a clean, dry area. Do not store next to corrosive materials, such as fertilizer.

SERVICE & ADJUSTMENT



WARNING: ALWAYS STOP ENGINE AND DISCONNECT SPARK PLUG WIRE AND MOVE IT AWAY FROM SPARK PLUG BEFORE PERFORMING ANY ADJUSTMENTS OR REPAIRS.

REMOVING THE FLAIL SCREEN

If the discharge area becomes clogged, remove the flail screen and clean area as follows.

- Stop the engine, make certain the chipper-shredder has come to a complete stop and disconnect spark plug wire from the spark plug before unclogging the chute.
- Loosen the two hand knobs on each side of the chute deflector. Lift the chute deflector up, and tie it out of the way.
- Remove two hairpin clips from the clevis pins which extend through the housing. Remove the clevis pins. Lift the flail screen from inside the housing. See figure 18.
- Clean the screen by scraping or washing with water. Reinstall the screen.

NOTE: Be certain to reassemble the flail screen with the curved side down as shown in figure 18.

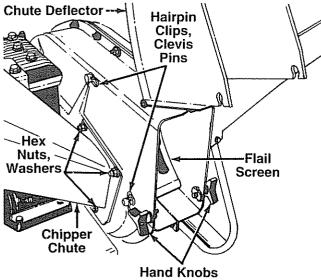


FIGURE 18.

SHARPENING OR REPLACING THE BLADES CHIPPER BLADES

- Disconnect spark plug wire and move it away from spark plug.
- Remove the flail screen as instructed in previous section.
- Remove the chipper chute by removing three hex nuts and washers. A 1/2" wrench is required. See figure 18.

NOTE: When reassembling, the cupped washer goes on the bottom of the chipper chute with the cupped side against the chute.

- Rotate the impeller assembly by hand until you locate one of the chipper blades in the chipper chute opening. Remove the blade, using a 3/16" allen wrench on the outside of the blade and 1/2" wrench on the impeller assembly (inside the housing). See figure 19.
- Remove the other blade in the same manner.

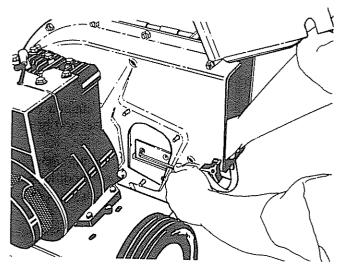


FIGURE 19.

Replace or sharpen blades. If sharpening, make certain to remove an equal amount from each blade. Reassemble in reverse order.

Make certain blades are reassembled with the sharp edge facing the direction shown in figure 19 (sharp edge is assembled toward the slotted opening in the impeller assembly).

SHREDDING BLADE

The shredding blade may be removed for sharpening or replacement as follows.

- Disconnect spark plug wire and move it away from spark plug.
- Lower the hopper assembly. Block up the housing. See figure 20.
- Remove the six hex lock nuts and lock washers from the housing weld bolts using a 1/2" wrench. Separate the chipper-shredder into two halves.
- Remove the back-up plate.

NOTE: When reassembling, make certain the opening on the back-up plate is toward the bottom of the unit. The back-up plate may be reversed to provide a new cutting edge.

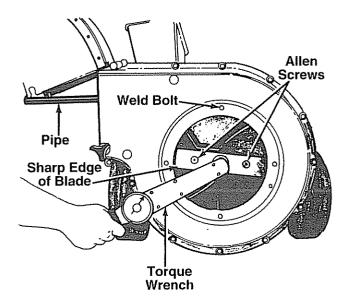


FIGURE 20.-Model 247.797853 Shown

- Loosen the two hand knobs and cupped washers which secure the chute deflector, and raise the chute deflector.
- Insert a 1/2" or 3/4" diameter pipe through the flail screen into the impeller to keep it from turning, or remove the flail screen and insert a piece of wood (2 x 4) into the chute opening.
- Model 247.797853 only: Remove the two outside screws on the blade, using a 3/16" allen wrench and a 1/2" wrench.
- Remove the blade by removing the center bolt, lock washer and flat washer.

NOTE: Use caution when removing the blade to avoid contacting the weld bolts on the housing.

- When sharpening the blade, follow the original angle of grind as a guide. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds and may cause damage to the unit.
- The blade can be tested for balance by balancing it on a round shaft screwdriver or nail. Remove metal from the heavy side until it is balanced evenly. See figure 21.

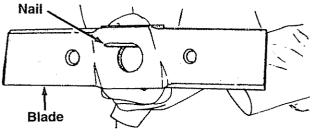


FIGURE 21.

When reassembling the blade, tighten to between 550 and 650 inch pounds, or lacking torque wrench, tighten securely.

FLAILS

The flails, located inside the housing, may be reversed when they become dull. It is suggested that this procedure be performed by your nearest Sears Service Department.

CARBURETOR ADJUSTMENT

WARNING: IF ANY ADJUSTMENTS ARE MADE TO THE ENGINE WHILE THE ENGINE IS RUNNING (E.G. CARBURE-TOR), KEEP CLEAR OF ALL MOVING PARTS. BE CAREFUL OF HEATED SUR-FACES AND MUFFLER.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude or load.

NOTE: A DIRTY AIR CLEANER WILL CAUSE ENGINE TO RUN ROUGH. BE CERTAIN AIR CLEANER IS CLEAN AND ATTACHED TO THE CARBURETOR BEFORE ADJUSTING CARBURE-TOR. DO NOT MAKE UNNECESSARY ADJUST-MENTS. FACTORY SETTINGS ARE SATISFACTO-RY FOR MOST APPLICATIONS AND CONDITIONS.

Never attempt to change maximum engine speed. It is pre-set at the factory and should be changed only by a qualified service technician who has the necessary equipment.

The carburetor may need re-adjusting if engine lacks power or does not idle properly. If adjustments are needed, proceed as follows.

- Close needle valve (see figure 22) clockwise
 () finger tight only. Forcing may cause damage. Then open 1-1/2 turns counterclockwise ().
- Start engine and allow to warm for five minutes.
- With throttle in FAST position, close needle valve clockwise (∩) until engine starts to lose speed (lean mixture). Then slowly open needle valve counterclockwise (∽) until engine JUST BEGINS to run unevenly. This mixture should be rich enough for best performance under load.
- Place throttle control in IDLE position.

If engine idles, no further adjustment is necessary. If engine idles too fast, turn idle speed adjusting screw counterclockwise ($rac{1}$) until slower speed is obtained.

If engine dies, turn idle speed adjusting screw 1/4 turn clockwise (\frown). Place throttle control in FAST(position and restart engine.

Move throttle control to IDLE position. If engine does not idle, repeat step c.

● Test the engine by using the chipper-shredder. If engine tends to stall or die out, it usually indicates that the mixture is slightly lean and it may be necessary to open () the needle valve slightly to provide a richer mixture. This richer mixture may cause a slight unevenness in idling.

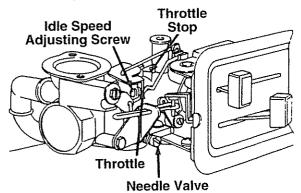


FIGURE 22.

ENGINE SPEED

Your engine speed has been factory set. Do not attempt to increase engine speed or it may result in personal injury. If you believe the engine is running too fast or too slow, take your chipper-shredder to the nearest SEARS Service Center for repair and adjustment.

SERVICE RECOMMENDATIONS

SERVICE RECORD Fill in dates as you complete regular service	SCHEDULE						SE	RVI	CE D	ATE	S
	First 5 Hours	Before Each Use	Every 25 Hours	Every 50 Hours	Begin- ning Each Season	Before Storage					
Check Fuel		\checkmark									
Drain Fuel						\checkmark					
Check Engine Oil Level		V			V						
Change Engine Oil	1		V								
Oil Pivot Points						V					
Service Air Cleaner			\checkmark								
Clean Engine Cylinder Fins			√		V						
Replace or Clean Spark Plug				√		1					
Spark Arrester Muffler				√							

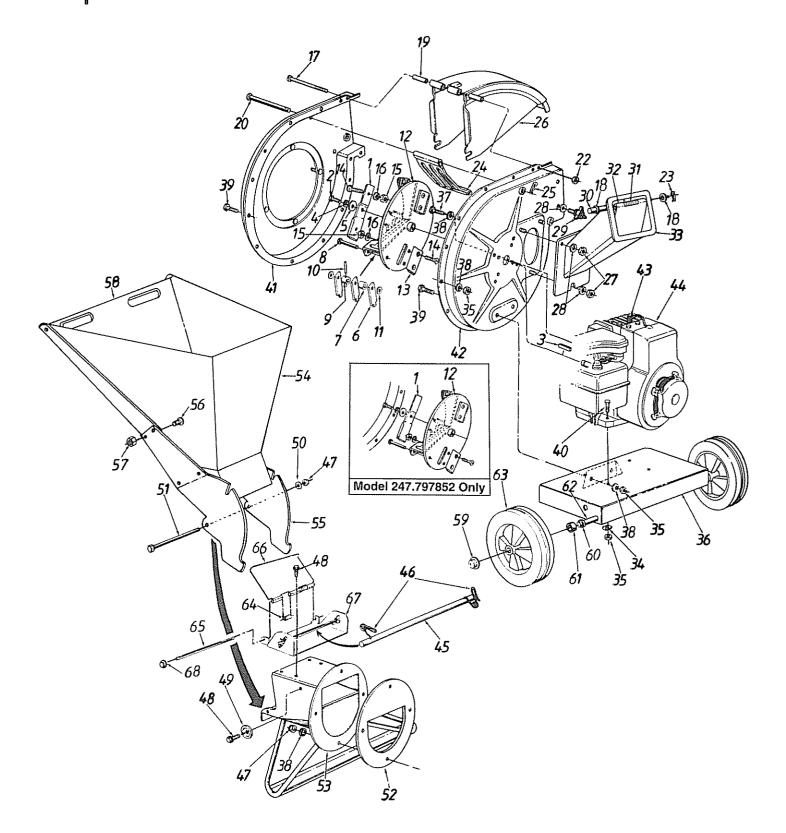
The Service Recommendations Chart is supplied to assist the operator in proper maintenance of the chipper-shredder. This is only a check list; instructions will be found in the Maintenance and Service Adjustment sections of this manual.

TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Engine fails to start	 Fuel tank empty, or stale fuel. Spark plug wire disconnected. Faulty spark plug. 	 Fill tank with clean, fresh fuel. Connect wire to spark plug. Clean, adjust gap or replace.
Loss of power; operation erratic	 Spark plug wire loose. Unit running on CHOKE. Blocked fuel line or stale fuel Water or dirt in fuel system. Carburetor out of adjustment. Dirty air cleaner. 	 Connect and tighten spark plug wire Move choke lever to OFF position. Clean fuel line; fill tank with clean fresh gasoline. Disconnect fuel line at carburetor to drain fuel tank. Refill with fresh fuel. Adjust carburetor or contact your SEARS Service Center. Service air cleaner See Maintenance section of this manual
Engine overheats	 Carburetor not adjusted properly. Engine oil level low. 	 Contact your SEARS Service Center. Fill crankcase with proper oil.
Too much vibration	 Loose parts or damaged impeller. 	 Stop engine immediately and disconnect spark plug wire. Tighten all bolts and nuts. Make all necessary repairs. If vibration continues, have unit serviced by a SEARS Service Center.
Unit does not discharge	 Discharge chute clogged. Foreign object lodged in impeller 	 Stop engine immediately and disconnect spark plug wire. Clean flail screen and inside of blower housing. See Service/Adjustments section of this manual. Stop engine immediately and disconnect spark plug wire. Remove lodged object.
Rate of discharge slows considerably or composition of discharged material changes	 Shredding blade and/or chipper blades dull. 	 Sharpen or replace shredding and chipper blades.

NOTE: For repairs beyond the minor adjustments listed above, please contact your nearest SEARS Service Center.

SEARS CRAFTSMAN 5 H.P. CHIPPER-SHREDDER MODEL NOS. 247.797852 247.797853

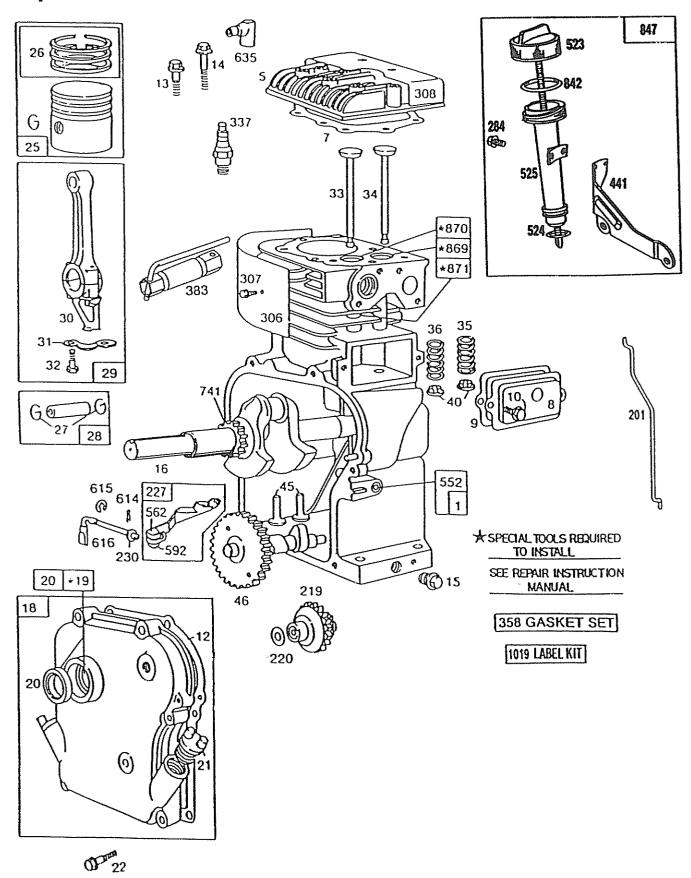


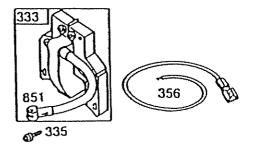
SEARS CRAFTSMAN 5 H.P. CHIPPER-SHREDDER MODEL NOS. 247.797852 247.797853

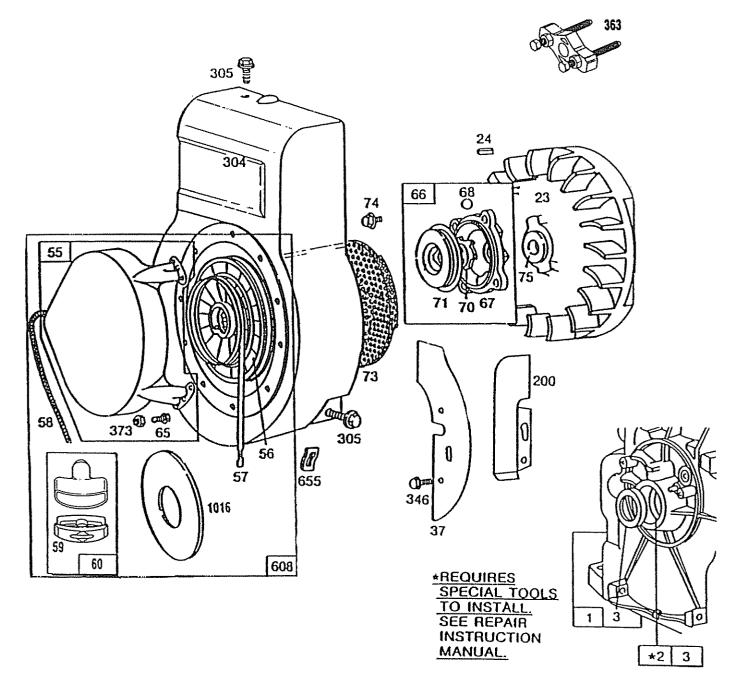
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	13431	Blade (247,797852)	37	710-0157	Hex Bolt 5/16-24 x .75" Lg.
	742-0571	Blade (247.797853)	38	736-0119	L-Wash. 5/16" I.D.*
2	710-0818	Hex Patch Bolt 3/8-24 x 2" Lg. (Gr. 8)	39	710-3008	Hex Bolt 5/16-18 x .75" Lg. (Gr. 5)
3	714-0114	Sq. Key 1/4 x 2.0" Lg.	40	710-0380	Hex Bolt 5/16-18 x 1.75" Lg.*
4	736-0217	L-Wash 3/8" I.D. H.D.	41	681-0004	Flail Housing Ass'yL.H.
5	736-0247	FI-Wash406" I.D. x 1.25" O.D. Hdn.	42 43	781-0474A 735-0639	Flail Housing Ass'y.—R H Spark Plug Boot
6	11459B	Flail	44	130212-3250-01	Engine-B&S 130212-3250-01
7	711-0564	Flail Spacer	45	747-0531A	Release Bar
8	711-0833A	Clevis Pin .496" Dia.	46	742-0546	Torsion Spring 1.06" Lg.
9	711-0834	Flail Spacer w/.160" Dia. Hole	47	712-0429	Elastic Lock Nut 5/16-18 Thd
10	715-0249	Spring Roll Pin 1.12" Lg.	48	710-0601	Hex Wash. Hd. Self-Tap Scr.
11	736-0192	Fi-Wash. 531" I.D. x .94" O.D.	ļ		5/16-18 x .75" Lg
12	781-0484	Impeller Ass'y. (247.797852)	49	11480	Stop Washer
	681-0002	Impeller Ass'y (247.797853)	50	736-0264	FI-Wash, 5/16" I.D.
13	781-0490	Chipper Blade	51	710-0542	Hex Bolt 5/16-18 x 8.38" Lg.
14	710-1054	Flat Hd. Scr. 5/16-24 x .75" Lg	52	781-0487B	Back-Up Plate
15	712-0411	Hex Top L-Nut 5/16-24 (Gr. 5)	53	16522B	Inlet Guide Ass'y.
16	736-0119	L-Wash. 5/16" I.D.*	54	781-0494	Pivot Hopper Hood
17	710-0825	Hex Bolt 1/4-20 x 3.75" Lg.*	55	16524B	Upper Guide Ass'y
18	736-0142	FI-Wash 281" I.D. x .50" O.D.	56	710-0286	Truss Mach. Scr. 1/4-20 x .5"
19	750-0793	Chute Hinge Spacer 1.66" Lg.			Lg.
20	711-0835	Clevis Pin 5" Dia. x 4.62" Lg	57	712-0107	Hex L-Nut 1/4-20 Thd
22	712-0291	Hex Ctr. L-Nut 1/4-20 Thd.	58	11461B	Upper Leaf Ramp Section
23	714-3010	Cotter Pin	59	726-0214	Push Cap 5/8" Dia. Rod
24	781-0457	Shredder Screen	60	736-0187	FI-Wash. 64" I.D. x 1.24"
25	714-0149B	Internal Cotter Pin 3/8" Dia.	61	750-0786	Spacer .64" I.D. x .38" Lg.
26	781-0480	Chute Deflector Ass'y.	62	738-0814	Shredder Axle
27	712-3010	Hex Nut 5/16-18 Thd. (Gr. 5)	63	734-1600	Wheel Ass'y. Comp.
28	736-0242	Bell-Wash, .345" I.D. x .88"	64	732-0629	Torsion Spring
29	720-0170	Hand Knob	65	747-0747	Hopper Door Rod
30	747-0744A	Chipper Door Rod	66	781-0492	Hopper—Pivot Door
31	732-0542	Torsion Spring 1.14" Lg.	67	781-0493	Hopper Lockout Brkt.
32	781-0489	Chipper Door	68	726-0106	Cap Speed Nut 1/4" Rod
33	781-0475	Chipper Chute Ass'y		764-0199A	Bag (Not Shown)
34	736-0170	Spec. L-Wash. 5/16" I.D.		723-0400	Safety Glasses (Not Shown)
35	712-3010	Hex Nut 5/16-18 Thd. (Gr. 5)		770-7110G	Owner's Manual
36	781-0510	Shredder Frame			

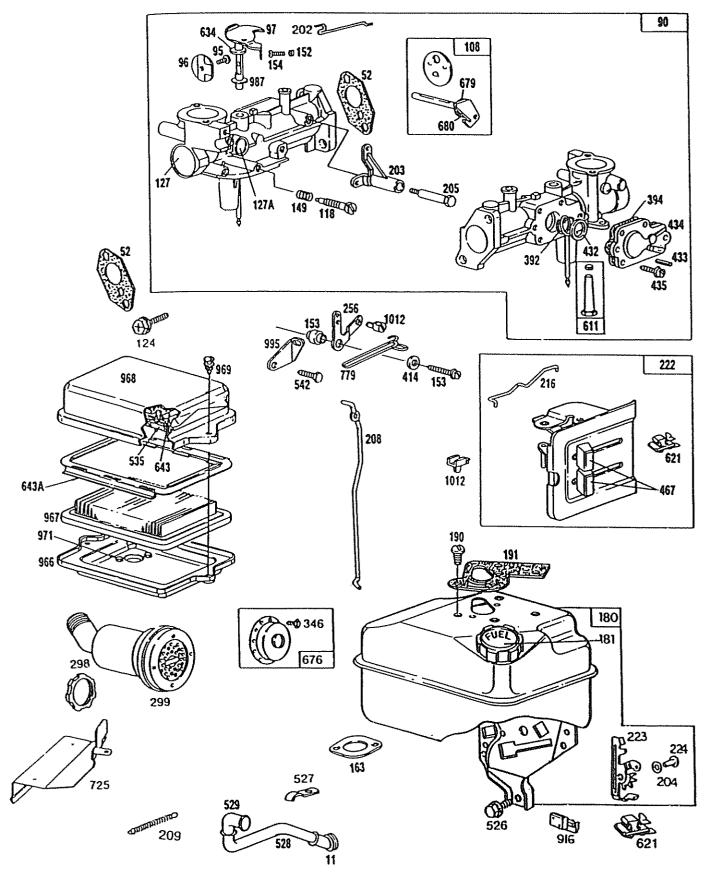
*Common Hardware—May Be Purchased Locally.

NOTE: Specifications subject to change without notice or obligation.









1 395990 Cylinder Assembly 32 92296 Screw-Connecting Rod 2 297565 BushingCylinder 33 211119 Valve-Exhaust 3 299819 Scal-Oll 35 260552 SpringExhaust Valve 5 211542 Head-Oylinder 37 222443 Guard-Flywheel 7 7272157 Gasket-Cylinder Head 40 93312 Retainer-Valve Chamber 45 260642 Tappet-Valve 9 272749 Gasket-Connoctone 56 294178 Gasket-Canwond Nounting 10 33394 Screw-Breather Mig. Sem 52 295671 Puley-Rewind Starter 7 Thick Gasket-Crankcase-005" 58 66884 Rope-Rewind Starter 12 "270126 Gasket-Crankcase-006" 58 66884 Rope-Rewind Starter 13 94221 Screw-Cylinder Head 66 394697 Housing-Starter Handle 14 93369 Screw-Cylinder Head 66 394697 Housing-Starter Starter	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
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12 *27080 Gasket—Crankcase—015" Thick (Standard) 56 295971 Pulley—Rewind Starter Spring-Rewind Starter *270125 Gasket—Crankcase—005" Thick 57 490179 Spring-Rewind Starter *270126 Gasket—Crankcase—009" Thick 58 66884 Forge-Rewind Starter 13 94221 Screw—Cylinder Head (2-3/32" Long) 66 994128 Screw—Starter Handle 14 93369 Screw—Cylinder Head (2-15/32" Long) 66 399467 Clutch Ass'y —Rewind Starter 15 91249 Plug—Pipe, 1/4" Std. Square Head 66 399471 Clutch Ass'y —Rewind Starter 16 492926 Crankshaft Gear To Replace Crankshaft Gear To Replace Crankshaft Gear To Replace Crankcase Cover 90 73 221393 Screw—Starter Pulley 18 493916 Cover Ass'y 75 224061 Washer—Spring 20 298504 Seal—Oil 96 490048 Shaft and Lever—Throttle Valve to Shaft Serew—Trottle Valve to Shaft 21 66768 Plug—Oil Filler 97 490048 Shaft and Lever—Throtttle 22 9460			Grommet—Breather Tube			
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16 Head 70 298799 Ratchet—Rewind Starter 16 492926 Crankshaft 71 394506 Washer—Clutch Retainer 18 493916 Cover Ass'y. 75 224061 Washer—Spring 18 493916 Cover Ass'y. 75 224061 Washer—Spring 19 297603 Bushing—Crankcase Cover 90 492611 Carburetor Assembly 20 298504 Seal—Oil 96 223793 Throttle—Carburetor 21 66768 Plug—Oil Filler 97 490048 Shaft and Lever—Throttle 22 94607 Screw—Crankcase Cover 108 491177 Valve Group—Choke 23 297229 Flywheel—Magneto 124 93357 Screw—Hex. Head 24 226984 Veico Ass'y.—O10" O.S. 149 26336 Spring—Needle Valve 298905 Piston Ass'y.—O20" O.S. 152 260575 Spring—Throttle Adjustment 298906 Piston Ass'y.—O30" O.S. 153 490589 Screw Ass	15	91249				Ball_Clutch
16492926Crankshaft To Replace Crankshaft Gear Pin, Order Part No. 23097871 73 74394506Washer—Clutch Retainer Screm—Same18493916Cover Ass'y.75 224061224061Washer—Spring Carburetor Assembly Note: Requires special tools for installation.74 9349093490 Screw—Throttle Valve to Shaft Serm20298504Seal—Oil96 223793223793Throttle-Carburetor Serw—Throttle Valve to Shaft Serm20298504Seal—Oil96 223793223793Throttle-Carburetor Valve Group—Choke2166768Plug—Oil Filler97 Mounting Sem490048Shaft and Lever—Throttle Valve Group—Choke23297229Flywheel—Magneto124 12779357Screw—Hex. Head Plug—Welch2422698Key—Flywheel1277 220352220352 Plug—Welch (Mixing Chamber) 298905Piston Ass'y.—010" O.S.149 149 26336Spring—Needle Valve Screw—Machine, Rd. Hd.— 5-40 x 5/8"26298982 Plaston Ass'y.—020" O.S.152 153 154 93527Screw—Machine, Rd. Hd.— 5-40 x 5/8"26298982 Plaston Ass'y.—010" O.S.153 154 93527490589 9409426298982 Plaston Ass'y.—010" O.S.180 180 942927 9494932613 9409426298982 Plaston Ass'y.—010" O.S.153 154 9352793527 940072726026 26026Chrome Piston Ring Set—Standard Piston181 180 190271928 94094Gasket—Fuel Tank Mounting Ser<		012.0				
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Mounting Sem 118 231533 Valve—Needle 23 297229 Flywheel—Magneto 124 93357 Screw—Hex. Head 24 222698 Key—Flywheel 127 220352 Plug—Welch 25 298904 Piston Ass'y.—Standard 127A 223789 Plug—Welch (Mixing Chamber) 298905 Piston Ass'y.—010" O.S. 149 26336 Spring—Needle Valve 298906 Piston Ass'y.—020" O.S. 152 260575 Spring—Throttle Adjustment 298907 Piston Ass'y.—030" O.S. 153 490589 Screw Ass'y. * 298907 Piston Ass'y.—030" O.S. 153 490589 Screw-Machine, Rd. Hd.— 298907 Piston Ass'y.—030" O.S. 153 490589 Screw-Machine, Rd. Hd.— 298907 Piston Ass'y.—030" O.S. 163 271935 Gasket—Air Cleaner Mounting 26 298982 Ring Set—Standard Piston 181 490075 Cap—Fuel Tank 298983 Ring Set—010" O.S. Piston 190 94094 Screw—Fuel Tank Mounting		94607				
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24 222698 Key—Flywheel 127 220352 Plug—Welch 25 298904 Piston Ass'y.—Standard 127A 223789 Plug—Welch (Mixing Chamber) 298905 Piston Ass'y.—010" O.S. 149 26336 Spring—Needle Valve 298906 Piston Ass'y.—020" O.S. 152 260575 Spring—Throttle Adjustment 298907 Piston Ass'y.—030" O.S. 153 490589 Screw Ass'y. * 298907 Piston Ass'y.—030" O.S. 153 490589 Screw Ass'y. * 298907 Piston Ass'y.—030" O.S. 154 93527 Screw Ass'y. * PISTON RING SETS: 154 93527 Screw Ass'y. * Note: For Chrome Piston Ring 5-40 x 5/8" Screw Assembly—Fuel Part No. 299742. 180 492927 Tank Assembly—Fuel 298982 Ring Set—Standard Piston 181 490075 Cap—Fuel Tank 298983 Ring Set—010" O.S. Piston 190 94094 Screw—Fuel Tank Mounting 298985 Ring Set—030" O.S. Pist	23	297229				
25298904 298905Piston Ass'y.—Standard Piston Ass'y.—010" O.S.127A 149 26336223789 Spring—Needle Valve Spring—Throttle Adjustment Spring—Throttle Adjustment Screw Ass'y.298906Piston Ass'y.—020" O.S. Piston Ass'y.—030" O.S.152 152260575Spring—Throttle Adjustment Screw Ass'y.298907Piston Ass'y.—030" O.S. PISTON RING SETS: Note: For Chrome Piston Ring Set—Standard Size—Order Part No. 299742.153 154490589 93527Screw Ass'y.26298982 298983 Ring Set—Standard Piston 298984 298984 298985Ring Set—010" O.S. Piston Piston Pin181 190490075 94094Cap—Fuel Tank Screw—Fuel Tank Mounting Sem2726026 26026Lock—Piston Pin191 200*271928 200Gasket—Air						
298905 Piston Ass'y.—.010" O.S. 149 26336 Spring—Needle Valve 298906 Piston Ass'y.—.020" O.S. 152 260575 Spring—Throttle Adjustment 298907 Piston Ass'y.—.030" O.S. 153 490589 Screw Ass'y. PISTON RING SETS: 154 93527 Screw Ass'y. * Note: For Chrome Piston Ring 5-40 x 5/8" Screw Assembly—Fuel Part No. 299742. 180 492927 Tank Assembly—Fuel Part No. 299742. 180 492927 Tank Assembly—Fuel 298983 Ring Set—Standard Piston 181 490075 Cap—Fuel Tank 298984 Ring Set—010" O.S. Piston 190 94094 Screw—Fuel Tank Mounting 298985 Ring Set—030" O.S. Piston 191 *271928 Gasket—Fuel Tank Mounting 27 26026 Lock—Piston Pin 200 223886 Guide—Air						
298906 Piston Ass'y.—.020" O.S. 152 260575 Spring—Throttle Adjustment 298907 Piston Ass'y.—.030" O.S. 153 490589 Screw Ass'y. * PISTON RING SETS: 154 93527 Screw-Machine, Rd. Hd.— 5-40 x 5/8" Note: For Chrome Piston Ring 5-40 x 5/8" Screw-Machine, Rd. Hd.— 5-40 x 5/8" 26 298982 Ring Set—Standard Size—Order 163 271935 Gasket—Air Cleaner Mounting 28 298982 Ring Set—Standard Piston 181 490075 Cap—Fuel Tank 298983 Ring Set—010" O.S. Piston 190 94094 Screw—Fuel Tank Mounting 298984 Ring Set—020" O.S. Piston 191 *271928 Gasket—Fuel Tank Mounting 298985 Ring Set—030" O.S. Piston 191 *271928 Gasket—Fuel Tank Mounting 298985 Lock—Piston Pin 200 223886 Guide—Air			Piston Ass'v 010" O.S.			Spring—Needle Valve
298907Piston Ass'y030" O.S. PISTON RING SETS: Note: For Chrome Piston Ring Set—Standard Size—Order Part No. 299742.153490589Screw Ass'y.26298982Ring Set—Standard Piston 298983163271935Gasket—Air Cleaner Mounting Tank Assembly—Fuel26298982Ring Set—Standard Piston 298983181490075Cap—Fuel Tank Screw2726026Lock—Piston Pin191*271928Gasket—Fuel Tank Mounting Ser						
PISTON RING SETS:15493527Screw—Machine, Rd. Hd.— 5-40 x 5/8"Note: For Chrome Piston Ring Set—Standard Size—Order Part No. 299742.163271935Gasket—Air Cleaner Mounting Tank Assembly—Fuel26298982Ring Set—Standard Piston 298983181490075Cap—Fuel Tank Screw—Fuel Tank28298982Ring Set—010" O.S. Piston 29898419094094Screw—Fuel Tank Mounting Sem2726026Lock—Piston Pin191*271928Gasket—Fuel Tank Mounting Sem						
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26Set—Standard Size—Order Part No. 299742.163 180271935 492927Gasket—Air Cleaner Mounting Tank Assembly—Fuel26298982Ring Set—Standard Piston 298983180 Ring Set—010" O.S. Piston 298984181 190490075 94094Cap—Fuel Tank Screw—Fuel Tank Mounting Sem2726026Lock—Piston Pin191 200*271928 200Gasket—Fuel Tank Mounting Sem					000.	5-40 x 5/8"
26 298982 Ring Set—Standard Piston 180 492927 Tank Assembly—Fuel 26 298982 Ring Set—Standard Piston 181 490075 Cap—Fuel Tank 298983 Ring Set—010" O.S. Piston 190 94094 Screw—Fuel Tank Mounting 298984 Ring Set—020" O.S. Piston 191 *271928 Gasket—Fuel Tank Mounting 27 26026 Lock—Piston Pin 200 223886 Guide—Air				163	271935	
26 298982 Ring Set—Standard Piston 181 490075 Cap—Fuel Tank 298983 Ring Set—010" O.S. Piston 190 94094 Screw—Fuel Tank Mounting 298984 Ring Set—020" O.S. Piston 191 *271928 Gasket—Fuel Tank Mounting 27 26026 Lock—Piston Pin 200 223886 Guide—Air						
298983 Ring Set—.010" O.S. Piston 190 94094 Screw—Fuel Tank Mounting 298984 Ring Set—.020" O.S. Piston 190 94094 Screw—Fuel Tank Mounting 298985 Ring Set—.030" O.S. Piston 191 *271928 Gasket—Fuel Tank Mounting 27 26026 Lock—Piston Pin 200 223886 Guide—Air	26	298982				
298984 Ring Set—.020" O.S. Piston Sem 298985 Ring Set—.030" O.S. Piston 191 *271928 Gasket—Fuel Tank Mounting 27 26026 Lock—Piston Pin 200 223886 Guide—Air						
298985 Ring Set— 030" O.S. Piston 191 *271928 Gasket—Fuel Tank Mounting 27 26026 Lock—Piston Pin 200 223886 Guide—Air					0.004	
27 26026 Lock—Piston Pin 200 223886 Guide—Air				191	*271928	
	27					
	28	298909	Pin Ass'y.—Piston—Standard	201	262280	Link—Governor
298908 Pin Ass'y.—Piston—.005" O.S. 202 262270 Link—Throttle	-					
29 299430 Rod Ass'y Connecting 203 280720 Crank Bell	29					
Note: For Connecting Rod 204 222962 Bushing—Governor Lever						
with .020" undersize Crankpin (Flat)						
Bore—Order No. 390459. 205 231520 Screw—Shoulder				205	231520	
30 221890 Dipper—Connecting Rod 208 262279 Rod—Control	30 I	221890				
31 221876 Lock—Conn. Rod Screw 209 262283 Spring—Governor						

KEY NO	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
216	262359	LinkChoke	535	491435	Element—Air Cleaner
219	391737	Gear—Governor	542	93572	Screw
220	221551	WasherThrust	552	231079	Bushing—Governor Crank
222	490649	Bracket—Control			(1/4" I.D.)
223	223455	Lever—Governor Control	562	92613	Bolt-Governor Lever
224	93491	Rivet—Governor Control Lever	592	231082	Nut—Hex —10-24
		Mounting	608	390463	Starter Ass'y — Rewind
227	490374	Lever Ass'y —Governor	611	391813	Fuel Pipe and Clip Assembly
230	222450	Washer—Governor Lever	614	93306	Cotter—Hairpin
256	223813	Bell Crank	615	93307	Retainer—E-Ring
284	94419	Screw—Self-Tapping	616	231077	CrankGovernor (1/4" Dia.)
298	261409	Lock Nut—Muffler	621	396847	Switch—Stop
299	393368	Muffler-Exhaust	634	271853	Washer—Throttle Shaft (Foam)
304	490169	Housing—Blower	635	66538	Elbow—Spark Plug
305	94608	Screw—Blower Housing	643	280737	Retainer—Foam Element
		Mounting	643A	280726	Retainer—Air Filter
306	221511	Shield—Cylinder	655	222598	Anchor Spring
307	93758	Screw—Cylinder Shield	676	395700	Deflector-Exhaust
		Mounting Sem			(Direct Outlet)
308	221512	Cover—Cylinder Head	679	270382	Washer Choke Shaft (Foam)
333	397358	Armature Assembly	680	221839	Washer Choke Shaft (Brass)
335	93414	Screw—Armature Mtg. Sem	725	223867	Shield—Heat
337	492167	Plug—Spark 7/8" High—	741	261696	Gear—Timing
		48 M.M.	779	262276	Link—Bell Crank
346	93705	Screw—Sem	842	270920	Seal—Tube
356	398808	Wire—Ground	847	493367	Oil Fill Ass'y
358	397145	Gasket Set	851	221798	Cable Terminal—Ignition
363	19069	Flywheel Puller (Optional	869	211787	Seat—Intake Valve (Standard)
		Accessory)	870	211172	Seat—Exhaust Valve
373	92987	Nut—Hex			(Standard)
383	89838	Wrench—Spark Plug			Note: For Options see Repair
392	262328	Spring—Fuel Pump Diaphragm		000004	Manual
394	270026	Diaphragm	871	262001	Guide—Exhaust Valve
414	220982	Washer			Note: 63709 Guide—Intake
432	221377	Cap—Spring			Valve. See Repair Instruction
433	93265	Pin—Diaphragm Cover	040	000004	Manual.
434	210959	Cover-Diaphragm	916	280321	Gear Rack—Governor
435	93141	Screw-Diaphragm Cover	966	492797	Base-Air Cleaner
441	224240	Bracket—Oil Fill	967	491588	Filter—Air
467	280715	Knob—Control	968	223765	Cover—Air Cleaner
523	492249	Cap—Oil Fill Gasket—Oil Fill Cap	969	490073	
524	271485		971	94018	
525	280508	Nipple—Oil Fill Screw—Tank Bracket	987	398970	Seal—Throttle Shaft Bracket—Link
526	94409		995	223887	Link—Retainer
507	000706	Mounting Sem Clamp—Breather Tube	1012	490507	
527	223786	Tube—Breather	1016	490817	Spacer Decal (Label) Kit
528 529	231550 67838	Grommet—Breather Tube	1019	491100	beval (Label) Mil
228	0/030			L	

*Included in Gasket Set-Part No. 397145.

> SPARK ARRESTING MUFFLER ASSEMBLY 392390 (Optional Equipment) Consists of the following: 392154 Screen (1 required) 223372 Deflector (1 required) 93705 Screw (4 required)



OWNER'S MANUAL

MODEL NOS. 247.797852 247.797853

HOW TO ORDER REPAIR PARTS

CRAFTSMAN®

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Each chipper-shredder has its own model number. Each engine has its own model number.

The model number for your chipper-shredder will be found on a label attached to the frame.

The model number for the engine will be found on the blower housing of the engine.

All parts listed herein may be ordered through Sears, Roebuck and Co. Service Centers and most Retail Stores.

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- * MODEL NUMBER 247.797852 247.797853
- * ENGINE MODEL NO. 130212-3250-01
- * PART NUMBER
- * PART DESCRIPTION

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